

CLAIMS

1. A computer implemented method of testing internationalized software, comprising the step of:
 - a. providing an element for performing the step of binding internationalized software to be tested to a multibyte locale created for a single byte language.

2. A computer implemented method of implementing a multibyte locale in a single byte language, comprising the steps of:
 - a. providing an element for performing the step of creating a mapping between multibyte binary words and characters of said single byte language; and
 - b. providing an element for performing the step of providing for conversion of representations of characters of said single byte language into corresponding multibyte binary words specified by said mapping.

3. The method of implementing a multibyte locale of claim 2 further comprising the step of:
 - c. providing an element for performing the step of providing a sort function which sorts multibyte binary words in a sort order customary for said single byte language, but which differs from a binary sort order;

10 whereby failure to invoke said sort function of the multibyte locale will result in a different sort order from said sort order customary for said single byte language.

4. The method of implementing a multibyte locale of claim 2 further comprising the steps of:

5 c. providing an element for performing the step of defining a date representation for a particular locale;

10 d. providing an element for performing the step of providing a date function which converts an internationalized date representation to said date representation for a particular locale

10 whereby failure to invoke said date function of the multibyte locale will result in a different date representation from said date representation customary for said locale.

5. The method of implementing a multibyte locale of claim 2 further comprising the step of:

5 b. providing an element for performing the step of providing for display of said multibyte binary words so as to create a visual distinction between characters

represented in said multibyte binary words and characters represented in ASCII.

6. The method of claim 5 in which said visual distinction relates to one of font, color or spacing.

7. A method for implementing a multibyte locale in a single byte language comprising the steps of:

5 a. providing an element for performing the step of converting representations of characters of said single byte language into corresponding multibyte binary words;

10 b. providing an element for performing the step of providing a sort function which sorts multibyte binary words in a sort order customary for said single byte language, but which differs from a binary sort order; and

10 c. providing an element for performing the step of providing a date function which converts an internationalized date representation to said date representation for a particular locale.

8. Apparatus for testing internationalized software, comprising:

a. a computer; and

5 b. a computer program stored on said computer for use with said internationalized software, said program

comprising a multibyte locale created for a single byte language.

9. A computer system for developing software comprising:

a. at least one computer;

b. one or more message sources, each containing one or more program messages in a single byte language; and

5 c. one or more language tables containing specific processing information and conventions for a particular locale, at least one of which is a multibyte locale created for a single byte language.

10. A computer system for developing and testing an internationalized computer program written in a single byte language, comprising:

a. a network;

5 b. one or more computers connected to said network;

c. a source of messages to be used by said internationalized computer program when running on said one or more computers; and

10 d. one or more locales, each containing specific processing information and conventions for a particular locale, at least one of which is a multibyte locale created for said single byte language, for binding to said internationalized computer program during program development and testing,

15. whereby an internationalized computer program under development can be tested using said multibyte locale.

11. A product for implementing a multibyte locale comprising:

a computer readable memory medium; and

a data structure stored on said memory medium,

5 utilized for controlling said multibyte locale, said data structure comprising:

a mapping of characters of a single byte language to corresponding multibyte binary words.

12. The computer program product of claim 11 in which the data structure further comprises:

a mapping of elements of a date representation utilized with internationalized software to elements of 5 a date representation of a particular locale.

13. The computer program product of claim 11 in which the data structure further comprises:

a representation of sort order utilized in a particular locale.

14. A computer program product for implementing a multibyte locale comprising:

5 a computer readable memory medium; and
one or more language tables containing specific
processing information and conventions for a particular
locale, at least one of which is a multibyte locale
created for a single byte language.

15. A computer program product for implementing a
multibyte locale in a single byte language comprising:

a computer readable memory medium; and

a computer program including

5 a routine for conversion of
representations of characters of
said single byte language into
corresponding multibyte binary
words;

10 a routine providing a sort function
which sorts multibyte binary words
in a sort order customary for said
single byte language, but which
differs from a binary sort order;

15 and

a routine for providing a date
function which converts an
internationalized date
representation to said date

20 representation for a particular
locale.

16. A network with improved capabilities for testing
internationalized software, comprising;

5 a plurality of computers connected to the network;
at least one of said computers configured to bind an
internationalized program written in a single byte
language to a multibyte locale created for said single
byte language.

17. A method of testing internationalized software
written in a single byte language using a network
comprising the steps of:

5 providing an element for performing the step of
downloading, over said network, a multibyte locale
implemented in said single byte language; and

providing an element for performing the step of
binding said multibyte locale to said internationalized
software for testing.

18. A method of facilitating testing of
internationalized software written in a single byte
language at a remote location using a network comprising
the steps of:

5 providing an element for performing the step of
sending, over said network, a multibyte locale created
for said single byte language to a computer at said
remote location,

10 whereby said computer at said remote location can
bind said multibyte locale created for said single byte
language to said internationalized software for testing.

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